# Introducing Credanet

## Credanet – What is it?

Credanet is an advanced patented electric heating system with controllability that helps provide significant reductions in home energy consumption. Designed to meet current standards of energy efficiency as outlined in the Housing Energy Efficiency Best Practice Programme, Credanet automatically 'learns' to use the most efficient electricity tariff and typically saves the homeowner 15% over conventional electric storage heating.

It's the only centrally controlled electric storage system recognised within NHER/SAP calculations to provide energy savings under the generic name of "CELECT". Credanet automatically complies with the control requirements for storage heating in Part L on the Building Regulations.

Using a patented mains borne signalling system, it utilises the existing wiring to link a choice of stylish, simple-to-install heaters. The central controller intelligently divides the home into three independent heating zones, adjustable by both time and temperature. This means that Credanet gives better demand performance than gas by achieving and maintaining desired comfort levels faster and achieving real zone separation.

The result? The right heat, wherever and whenever it's wanted.

**Independent tests show that Credanet is a more effective and responsive form of heating than gas.**

# Fingertip control

Credanet brings a new dimension in control to home heating. It's an advanced electric heating system that uses a central programmer to allow fingertip control over the heating. The home can be divided into three independently controllable heating zones, so the householder gets very user-friendly central heating that's easy to control and makes the most of clean, cheap and efficient electricity.

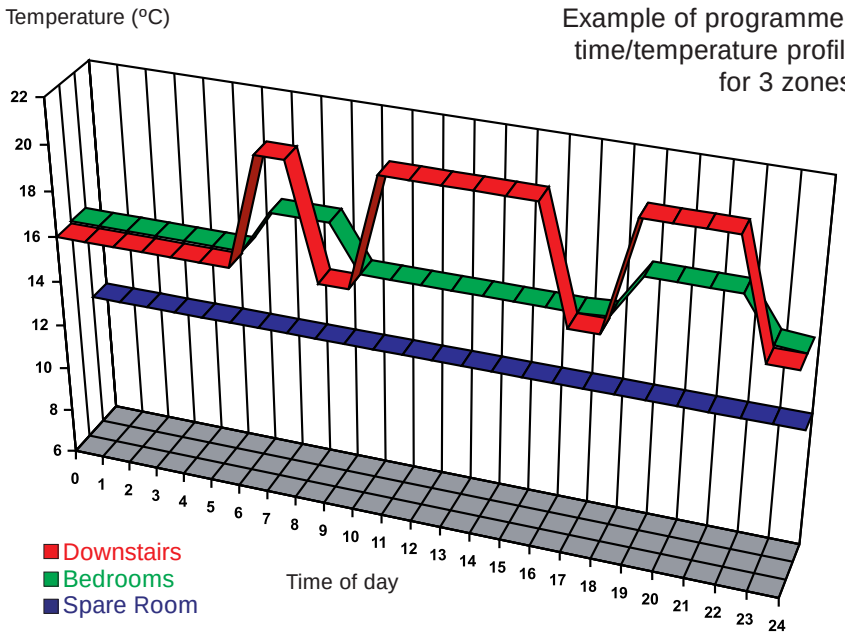
## How does it work?

The Credanet central programmer, is the heart of the system. Essentially, it 'talks' to the heaters to allow the user much greater control over where, when and to what temperature the heat is provided, eliminating wasted heat and energy. The programmer uses mains borne signalling to communicate with a range of appliances – whether they are Creda SFH storage fan heaters, TSR storage combination heaters or TPR panel heaters.

Each of the heaters has integral factory-fitted transceivers, which are set during installation. The Credanet programmer then uses two-way signalling to allow a time and temperature profile to be controlled on individual heaters.

## Works smarter to save money.

Credanet automatically 'learns' to use the most efficient electricity tariff to save the user money. It understands which tariff it is running on and will optimise economy tariffs for maximum efficiency. So whether controlling the generation of heat to be stored for later use or providing direct acting heat, the most economic option is always chosen. And as it works on virtually any tariff including fixed and variable period options, it offers greater flexibility. (For variable tariffs, special metering arrangements might be required – the Creda Technical Helpline can advise on 01782 385779.)




Example of programmed time/temperature profile for 3 zones.

## Benefits of zoning.

Zoning allows for 3 independently controlled zones to be programmed adjustable by time and temperature. Most people want a warm bathroom first thing in the morning and a cosy living room in the evening but may like the bedrooms to be a couple of degrees cooler. With Credanet, the user can have exactly what is wanted.

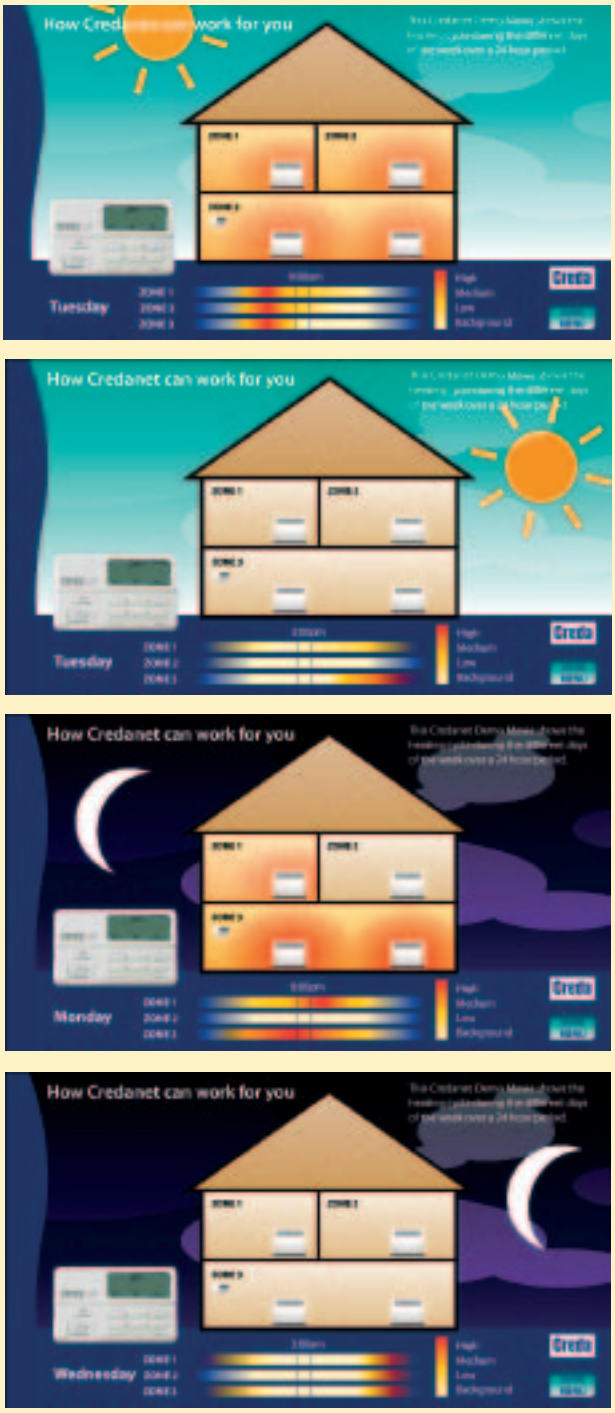
From the comfort of the central controller, the user can dictate the climate in the whole house. And, as heat in each zone is only provided according to need or preference, there can be significant energy savings.

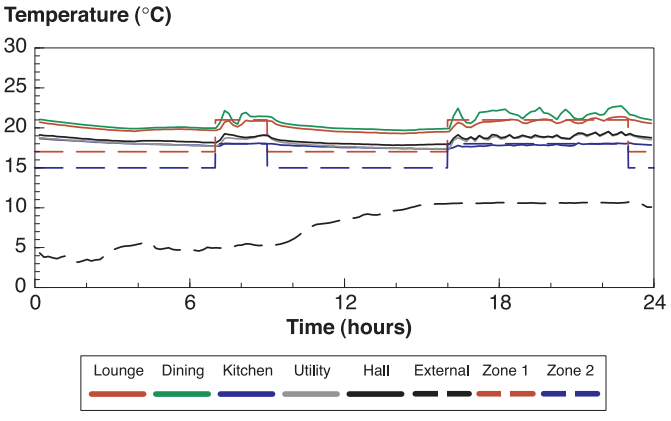
## Easy installation.

As the system operates with mains borne signalling, no additional wiring is required, keeping installation costs to a minimum.

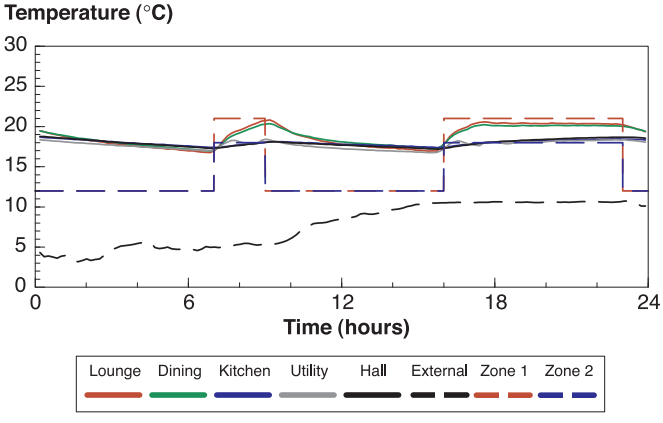
As well as being easy to fit, it helps achieve excellent NHER and SAP ratings, which is a major advantage for everyone.

For interactive Credanet demonstration please visit:
www.creda-heating.co.uk - click on interactive demo




Typical performance of a Credanet heating system




Typical performance of a gas heating system

# Credanet

## Centrally Controlled Heating

**Designed to meet current standards of energy efficiency to reduce home energy consumption the Credanet controller can be used as 1, 2 or 3 zones, adjustable by both time and temperature. Credanet automatically 'learns' to use the most economic electricity tariff via mains-borne signalling, linking specially designed SFHA storage fan heaters, TSR storage combination heaters and TPR panel heaters.**

## Key Features:

- Unique three independently controlled channels adjustable by time and temperature.
- Up to three comfort heating periods can be programmed per zone in each 24 hour period.
- Different settings possible for each day of the week.
- Holiday function - up to 99 days.
- Instant temperature adjustment available for each zone.
- Localised boost facility on each heater.
- Compact, neat and easy to use central programmer.
- Operates on virtually all tariffs including fixed and variable period tariffs.
- Can have up to 7 heaters per zone.
- Newera styling - slimmer profiles, softer contours and a fresher colour.
- Controller uses mains borne two-way signalling to control time and temperature on individual heaters.
- Credanet heaters have an integral, factory fitted transceiver which is set on installation.
- Can help to achieve better NHER and SAP ratings - a major benefit for everyone
- Compatible with European Home Automation Signalling Standards allowing data exchange to maximise economy.
- For some variable tariffs additional components will be required from the electricity supplier. (Refer to our application design department)

"9 simple steps to profile the system"

# Credanet

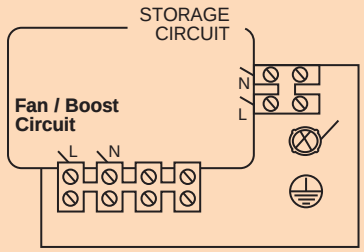
## Storage Fan Heaters
## CNT 18F
## CNT 24F

BEAB Approved CE

**Designed to store heat more effectively and only supply heat on demand, these Credanet storage fan heaters are the most economical in their class and achieve excellent NHER ratings.**

## Wiring:

**CNT18F, CNT24F**

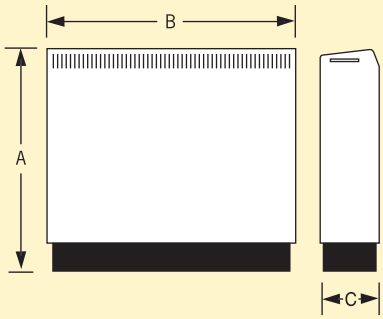



## Features & Benefits:

- Economical storage heating with controlled, highly responsive output via a whisper quiet fan system.
- Slimmest storage fan heater available - only 187mm deep.
- Boost feature.
- Automatically regulates heat storage and comfort levels via central controller.
- High levels of insulation - more effective at retaining stored heat than a conventional storage heater.
- Fanned heat output avoids heat stratification.
- Negative pressure air movement through the storage core avoids hotspots and heat leakage.
- Incorporates direct acting element for instant “out of season” heating.

## Dimensions:

**STORAGE FAN HEATERS**




| | | |
|---|---|---|
| **A Height** | **All models** | 705mm |
| **B Width** | **CNT 18F** | 788mm |
| | **CNT 24F** | 1016mm |
| **C Depth** | **All models** | 187mm |

## Specification:

| Product Reference | Catalogue Number | Rating Storage | Direct Acting | Charge Acceptance (7Hrs) | Net Storage | Weight | Number of Elements | Number of Core Bricks |
|---|---|---|---|---|---|---|---|---|
| **CNT18F** | 70309 | 2.5 kW | 1.5 kW | 17.6 kWh | 14.9 kWh | 121kg | 3 | 12 |
| **CNT24F** | 70319 | 3.4 kW | 1.5 kW | 23.5 kWh | 20.0 kWh | 158kg | 4 | 16 |
| Controller | 79321 | - | - | - | - | - | - | - |

• Insulation - Opacified silicaceous aerogel and mineral fibre mat • Storage Core - High density iron oxide compound • Storage Elements - Mineral insulated stainless steel sheathed • Fan Unit - Crossflow • Safety - Two level thermal safety overheat protection • Supply - 230/240V AC single phase

# Credanet

## Combi Storage Heaters CNT 12C CNT 18C CNT 24C

BEAB Approved CE

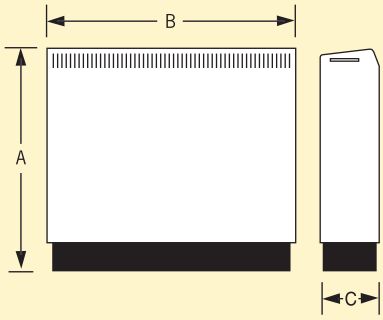
**Highly efficient combination storage heaters with a fast response, thermostatically controlled, fan heater that operates independently from the storage heater. Ideal for living areas that might need a boost of heat on demand.**

## Key Features:

- Provides a unique combination of storage heating and 'Warmflow' (Direct) fan heating.
- 'Warmflow' fan heater is more responsive and more efficient at maintaining desired room temperature.
- Avoids heat stratification, giving more even heat throughout the room.
- Quiet running fan.
- Boost feature.
- Heat storage and comfort levels automatically regulated via Credanet controller.
- Heat loads can be set to full or half level on installation to suit application.

## Dimensions:

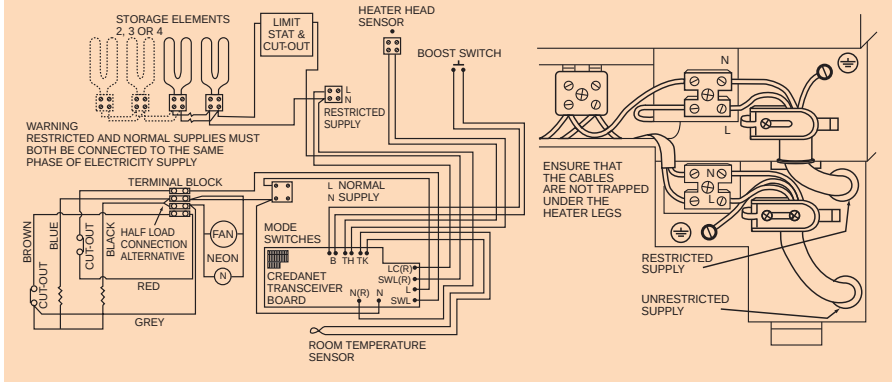
**COMBI STORAGE HEATERS**




| | | |
|---|---|---|
| **A Height** | **All models** | 760mm |
| **B Width** | **CNT 12C** | 560mm |
| | **CNT 18C** | 788mm |
| | **CNT 24C** | 1016mm |
| **C Depth** | **All models** | 170mm |

## Wiring:

**CNT 12C, CNT 18C, CNT24C**



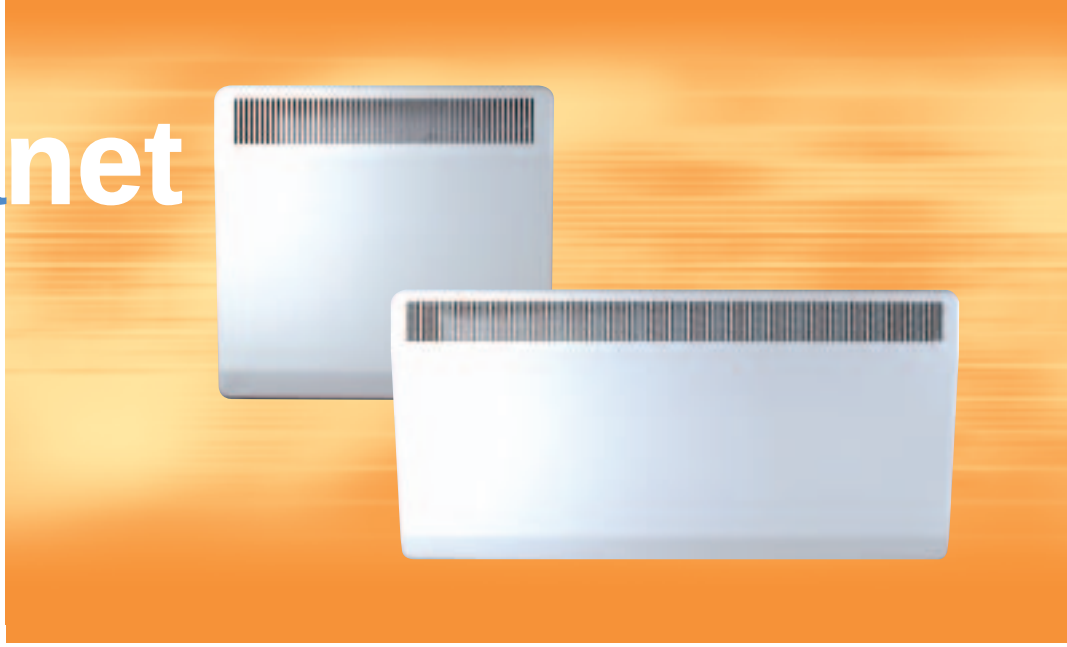

## Specification:

| Product Reference | Catalogue Number | Rating Storage | Rating Fan | Charge Acceptance (7Hrs) | Charge Acceptance (8Hrs) | Weight | Number of Elements | Number of Core Bricks |
|---|---|---|---|---|---|---|---|---|
| **CNT12C** | 79349 | 1.7 kW | 1.0/0.5 kW | 11.8 kWh | 12.6 kWh | 78kg | 3 | 8 |
| **CNT18C** | 79359 | 2.5 kW | 1.5/0.75 kW | 17.6 kWh | 18.5 kWh | 114kg | 4 | 12 |
| **CNT24C** | 79369 | 3.4 kW | 2.0/1.0 kW | 23.5 kWh | 25.0 kWh | 149kg | 5 | 16 |

• Insulation - Opacified silicaceous aerogel and mineral fibre mat • Storage Core - High density iron oxide compound • Storage Elements - Mineral insulated stainless steel sheathed
• Safety - Two level thermal safety overheat protection • Supply - 230/240V AC single phase

# Credanet

## Panel Heaters
## CNT 750P
## CNT 1000P
## CNT 1250P
## CNT 1500P
## CNT 2000P



BEAB Approved CE

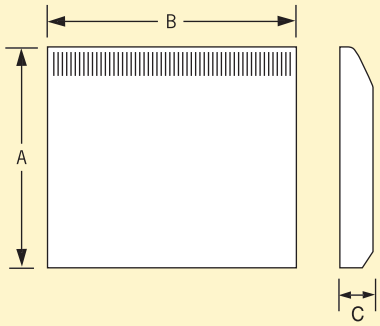
**Designed to provide controllable convected heat for smaller rooms, these heaters are suitable for bedrooms and IPX4 rated making them ideal for bathrooms.**

## Features & Benefits:

- Compact design.
- Boost feature will provide comfort levels whenever required.
- All models are splashproof and suitable for installation in Zone 1 & 2 in areas such as bathrooms.
- Wide range of power outputs - 750W to 2000W.
- Comfort levels are automatically controlled via the Credanet system.
- Features a detachable, hinged wall mounting frame for ease of installation and cleaning.

## Dimensions:

**PANEL HEATERS**




| | | |
|---|---|---|
| **A Height** | **All models** | 420mm |
| **B Width** | **CNT 750P** | 444mm |
| | **CNT 1000P** | 614mm |
| | **CNT 1250P** | 614mm |
| | **CNT 1500P** | 682mm |
| | **CNT 2000P** | 852mm |
| **C Depth** | **All models** | 93mm |

## Specification:

| Product Reference | Catalogue Number | Rating Storage |
|---|---|---|
| **CNT750P** | 85361 | 750W |
| **CNT1000P** | 85362 | 1000W |
| **CNT1250P** | 85363 | 1250W |
| **CNT1500P** | 85364 | 1500W |
| **CNT2000P** | 85365 | 2000W |

- Elements - Finned, metal sheathed mineral filled type
- Supply - 230/240V AC single phase

# RFrange

## Non-wired Control Solutions

BEAB Approved CE

**An innovative range of electronic panel heaters which offer non-wired radio frequency control, suitable for the domestic and commercial market.**

### Digital Electronic Thermostat:

- Integral drift compensation to maintain a stable room temperature.
- Double pole on/off switch and overheat protection.
- LED display when element is energised.

### Creda Saver:

- Plug in pre-programmed cartridge with15 pre-set programmes.
- Comfort mode thermostat on heater.
- Economy mode thermostat on Creda Saver.

### Creda Zone Receiver:

- Plug-in receiver for heaters, to enable control via Creda Zone 1 or 4 controller.
- Integral thermostat for back-up.
- Automatic start up when communication is restored.
- 433 MHZ operating band.

### Creda Zone 1 & 4:

- Controls single or multiple heaters within 1 to 4 zones.
- Time and temperature adjustment 24 hours a day, 7 days a week.
- Frost protection setting (5-15°C).
- Fall back temperature (5-30°C).
- Comfort temperature setting (5-30°C).
- Individual zone & measured zone temperature LED display.
- Battery operated.
- Can be wall mounted or freestanding.

# RFrange

## Electronic Panel Heaters

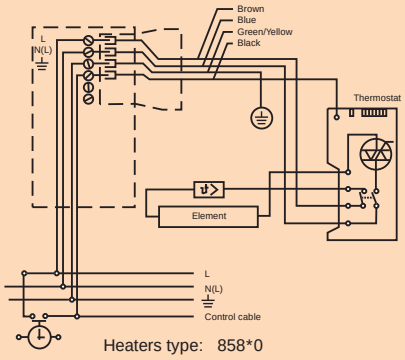
BEAB Approved CE

## Key Features:

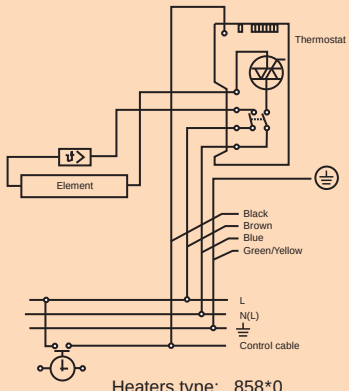
- Local or central control meets Building Regulations Part L.
- Digital electronic thermostat with drift compensation for accurate room temperature control.
- RF/E406S, RF/E410S Splash proof to IPC24C - for safe use in bathrooms.
- Total flexibility in controllers with a non-wired solution for easy installation.

## Wiring:

**RF RANGE**



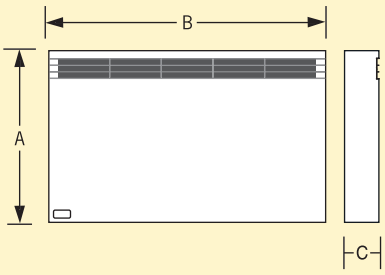

Heaters type: 858*0




Heaters type: 858*0
855*0

## Dimensions:

**RF HEATERS**




| Model | A Height | B Width |
|---|---|---|
| RF/E408 | 400mm | 645mm |
| RF/E410 | 400mm | 735mm |
| RF/E412 | 400mm | 915mm |
| RF/E415 | 400mm | 1095mm |
| RF/E420 | 400mm | 1365mm |
| RF/E406S | 400mm | 555mm |
| RF/E410S | 400mm | 735mm |
| RF/E208 | 200mm | 1095mm |
| RF/E210 | 200mm | 1275mm |
| RF/E212 | 200mm | 1545mm |
| RF/E215 | 200mm | 1725mm |

C Depth across the range is 80mm

## Specification:

| Product Reference | Catalogue Number | Rating |
|---|---|---|
| RF/E408 | 85510 | 800W |
| RF/E410 | 85520 | 1000W |
| RF/E412 | 85530 | 1200W |
| RF/E415 | 85540 | 1500W |
| RF/E420 | 85550 | 2000W |
| RF/E406S | 85820 | 600W |

| Product Reference | Catalogue Number | Rating |
|---|---|---|
| RF/E410S | 85840 | 1000W |
| RF/E208 | 85610 | 800W |
| RF/E210 | 85620 | 1000W |
| RF/E212 | 85630 | 1200W |
| RF/E215 | 85640 | 1500W |

## Accessories:

| Product Reference | Catalogue Number |
|---|---|
| Creda Zone 4 RF Controller | 85710 |
| Plug-in Receiver | 85711 |
| Plug-in Creda Saver | 85712 |
| Cover for Controls | 85713 |
| Creda Zone 1 RF Controller | 85715 |

• Elements - Finned, metal sheathed mineral filled type • Protection - Two level thermal safety overheat protection • Supply - 230/240V AC single phase

# Introducing SFHA Sensair

- The SFHA Sensair provides the ultimate combination of:
- Electric storage fan heating economy
- Direct acting heat flexibility
- Fanned heat output responsiveness
- Simple control
- Heat storage control on the Sensair is fully automatic, as it uses the same sensor technology as the market leading Creda TSR Sensor Plus range of storage heaters, giving better comfort and economy
- High performance insulation levels mean that the Sensair is more than twice as effective at retaining heat as a conventional storage heater. This high level of heat retention gives a superior level of controllability as stored heat can be used on demand, whatever the time of day
- Comfort levels are governed by an electronic thermostat (accurate to O.5°C) which is constantly monitoring room temperature and cycles the fan system (and heat output) accordingly. The user controls this from one single knob, simplicity itself
- Heat output is via a quiet yet powerful two speed fan. For added flexibility there is a boost setting for high speed room heat up
- For convenience the fan can be switched off without altering the thermostat setting
- The Sensair has a direct acting facility which provides additional heat if required, delivered into the room via the heaters fast response fans
- The slimmest storage fan heater available the same depth as a slimline TSR
- Operates on virtually any tariff. Takes better advantage of extended and split tariffs
- Helps new and refurbished houses achieve better NHER and SAP ratings (by as much as 6 SAP rating points compared to a manual input static storage heater)
- Fanned heat output avoids heat stratification, giving even heat throughout the room
- Negative pressure air movement through the storage core avoids potential hotspots and heat leakage
- Lockable controls cover

## The all-rounder

It's slim. It provides heat morning, noon and night. Plus it's quiet, easy to control and economic to run. In short, the Creda SFHA Sensair Automatic is just about the most complete storage fan heater you could find.

### Easy to operate.

One easy-to-use control operates room comfort. It is connected to a highly accurate thermostat that activates the fans if the room drops 0.5°C below the chosen temperature. A second control provides the option of selecting the output mode without having to alter the thermostat setting.

### Quiet fan performance.

There are two normal fan speed settings; the desired 'comfort' setting and 'boost' for a rapid increase in room heat. A further 'combi' setting adds flexibility. It allows the use of direct energy if there is insufficient charge in the core or for unexpectedly cold nights. Lastly, with the 'off' setting, the fans can be switched on and off without altering the settings. This helps to save energy during the day when background heat is all that is required.

The fan draws air through the storage core into a hot/cold mixing system before channelling it out into the room. It is sucked rather than blown to minimise the heat leakage or hot spots that could compromise safety. Very quiet in comfort mode, the performance is still effective enough to ensure an even room temperature and more efficient thermostatic control.

## Superior heat retention.

Sensair has the best heat retention performance for a heater of its narrow dimensions. In fact, it is more than twice as effective at retaining heat as a conventional storage heater. This stems from generous use of high specification insulation material. As a consequence, once fully charged for seven hours, it can be left on static discharge (fans switched off) for as long as 17 hours, yet still retain 40% of the energy.

## Leaders with automatic charging.

As pioneers of automatic storage heating, you can be sure that Creda knows how to give you superior performance within the Sensair. It uses a hydraulic thermostatic sensor to measure both room and core temperatures. This data is used to gauge the level of charge required to optimise use of off-peak electricity. Ideal with virtually any tariff regime, the auto-charge system is particularly efficient with extended, split or three-tier tariffs.

## Direct acting heat flexibility.

Firstly as the direct acting heating element is housed in the fan area, the heat is fanned to eliminate heat stratification.

Secondly this eliminates the need for an additional heater to be fitted to the front and therefore allows for a slimline design.

# SFHA Sensair Automatic

## SFH18AW
## SFH24AW

BEAB Approved CE

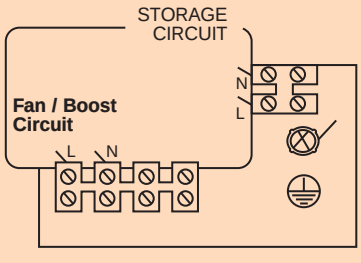
**The ultimate combination of electric storage fan heating. Able to regulate input with direct acting heat flexibility, the SFHA is more effective at retaining heat than a conventional storage heater. Able to operate on virtually any tariff and with superior high performance insulation levels, it achieves higher SAP and NHER ratings than manual input storage heaters.**

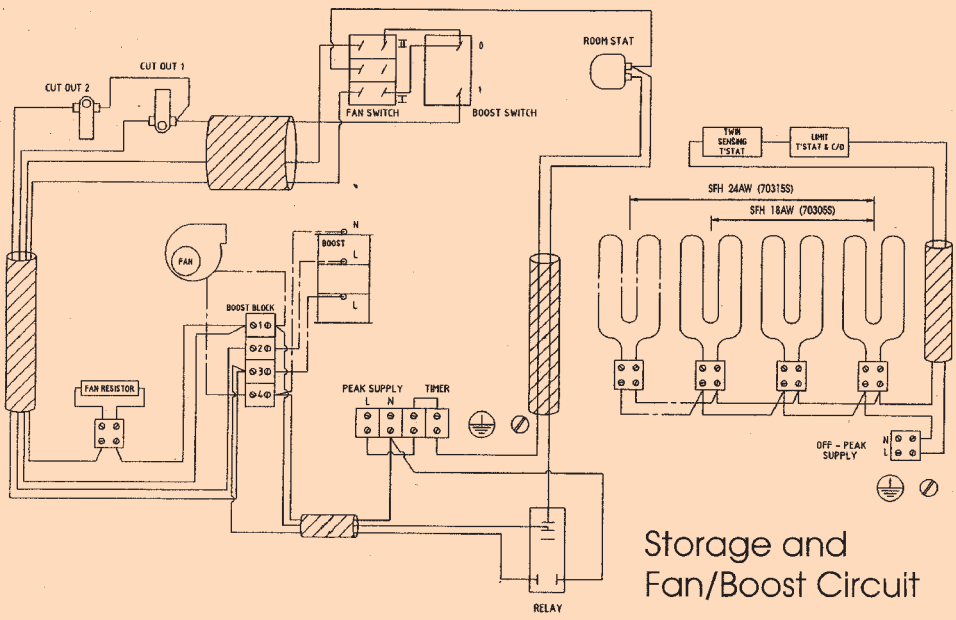
## Key Features:

- Combines electric storage fan heating, direct acting heating and fanned heat output with simple controls.
- Fully automatic heat storage, using the same technology as the Creda TSR Sensor plus range.
- High performance insulation works more effectively than a conventional storage heater.
- Enables heat to be on demand throughout the day.
- Heat output is via a whisper quiet two speed fan.
- Boost setting for high speed room heat up.
- Fan can be switched off without altering thermostat setting.
- Direct acting facility provides fanned heat when required.
- Operates on virtually any tariff and takes better advantage of extended or split tariffs.
- Fanned heating avoids heat stratification.
- Lockable controls cover.
- Newera colour aesthetics and softform styling.
- Negative pressure air movement through the storage core avoids hotspots and heat leakage.

## Wiring:

**SFH18AW, SFH24AW**



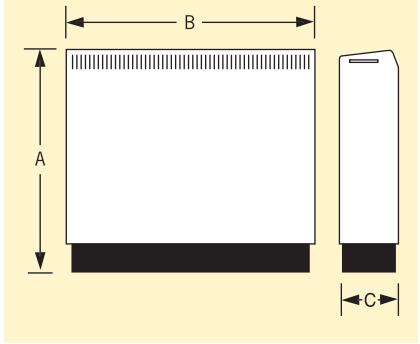




Storage and Fan/Boost Circuit

# SFHA Sensair Automatic

## Dimensions:

**SENSAIR AUTOMATIC**




| | | |
|---|---|---|
| **A Height** | **All models** | 705mm |
| **B Width** | **SFH18AW** | 788mm |
| | **SFH24AW** | 1016mm |
| **C Depth** | **All models** | 187mm |

## Heater Overview:

- Three-in-one automatic charge/discharge storage fan heater available in 2.5kW and 3.4kW loading.

## Charge Input:

- Automatic charging system using economy, split and three tier tariffs.

## Heat Retention Performance:

- Opacified silicaceous aerogel and mineral fibre mat. Typical heat retention after seven hour charge and 17 hours static discharge (fans off) - 40%.

## Core Heat Extraction:

- Negative air pressure movement through storage core to avoid potential hotspots and heat leakage.

## Heat Output:

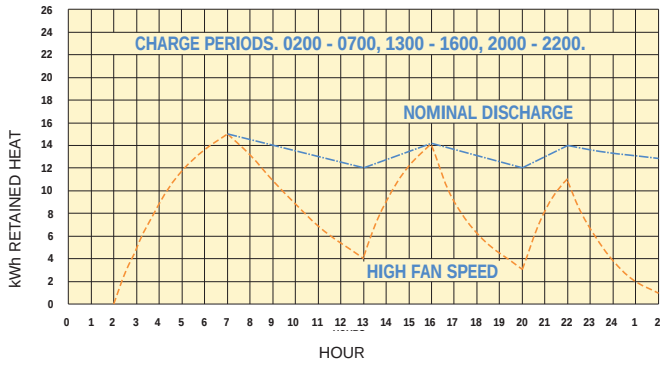
1. Electric storage heating
2. Fanned storage heating
3. 1.5kW Direct acting fanned heating

## Hydraulic Thermostat:

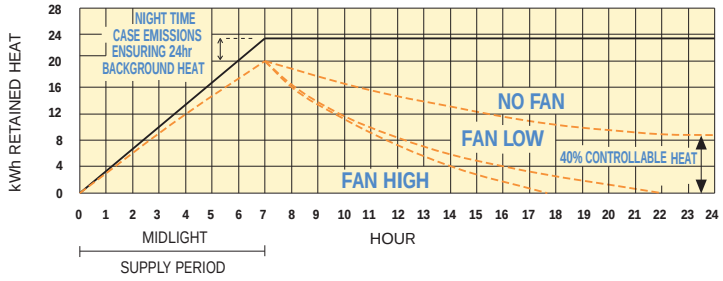
- Adjustable hydraulic thermostat control monitors and maintains room temperature within 0.5°C of desired comfort level.

## Performance:

*SFH24A Heat retention 3 part split tariff.*




*SFH24A Heat retention Economy 7.*



## Specification:

| Product Reference | Catalogue Number | Rating Storage | Direct Acting | Charge Acceptance (7Hrs) | Net Storage Capacity | Weight | Number of Elements | Number of Core Bricks | Remaining Useful Heat* (Fan Off) After 17 Hrs (Static) Discharge |
|---|---|---|---|---|---|---|---|---|---|
| **SFH18AW** | 70305 | 2.5 kW | 1.5 kW | 17.6 kWh | 14.9 kWh | 121kg | 3 | 12 | 40% |
| **SFH24AW** | 70315 | 3.4 kW | 1.5 kW | 23.5 kWh | 20.0 kWh | 158kg | 4 | 16 | 40% |

• Insulation - Opacified silicaceous aerogel and mineral fibre mat • Storage Core - High density iron oxide compound • Storage Elements - Mineral insulated stainless steel sheathed • Fan Unit - Two speed Crossflow fan • Controls (output) - Regulated by fan, controlled by integral adjustable electronic room thermostat • Controls (input) - Hydraulic head temperature compensated, room and storage core temperature sensitive, auto-set charge control • Safety - Two level thermal safety overheat protection • Supply - 230/240V AC single phase

# TSR Supaslim Combi

## TSR12CW/ACW
## TSR18CW/ACW
## TSR24CW/ACW

BEAB Approved CE

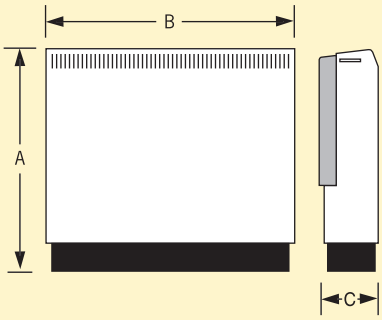
**The Creda Supaslim Combi heater is designed to combine economic and efficient storage heating using low-cost tariff electricity with an independently thermostat-controlled fan system. Effectively two heaters in one, the built-in fan can provide heat on its own or in combination with the storage heater for a rapid boost to room temperature.**

## Key Features:

- Combines economic tariff rate storage heater with a fast and responsive Warmflow fan heater for instant room heating.
- The slimmest storage combination heater available.
- 'Sensamatic' fully automatic storage heater output ensures room comfort levels are maintained throughout the day without user intervention.
- The Warmflow fan heater has independent thermostatic control accurate to within 0.5°C.
- Warmflow gives better heat distribution helping avoid heat stratification.
- Quiet, low velocity Warmflow fan.
- All controls are concealed behind a lockable flap.
- Newera colour and softform styling.
- ACW models feature automatic input control for compliance with building regulations, Part L1, for new build.

## Dimensions:

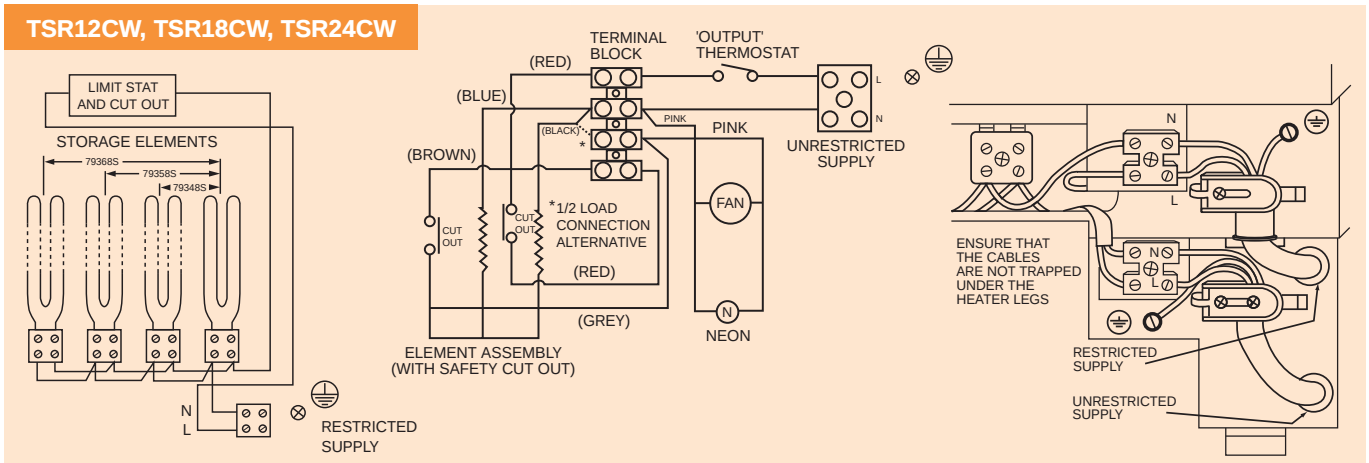
**SUPASLIM COMBI**




| | | |
|---|---|---|
| **A Height** | **All models** | 760mm |
| **B Width** | **TSR12CW/ACW** | 560mm |
| | **TSR18CW/ACW** | 788mm |
| | **TSR24CW/ACW** | 1016mm |
| **C Depth** | **All models** | 170mm |

## Wiring:

**TSR12CW, TSR18CW, TSR24CW**



# TSRSupaslimCombi

## Heater Overview:

- Two-in-one convection and fanned storage combination heater in a choice of three storage ratings.

## Fan Heater Control:

- Manually adjustable room temperature sensing thermostat.

## Storage Heater Charge Input Control:

- CW range have manually adjustable hydraulic charge control thermostat.
- ACW range have hydraulic charge control thermostat providing Auto-set charge control.

## Heat Output:

- Non-fanned storage heating, requiring no user adjustment for even temperature control throughout the day.

## Thermostat:

- Adjustable hydraulic thermostat control maintains room temperature within 0.5°C of desired comfort level.

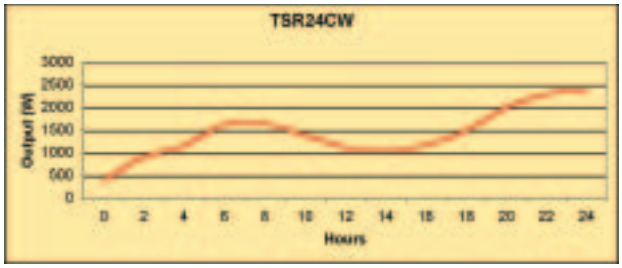
## User Controls:

- Positioned on the top right hand side of the heater.
  Control 1: Thermostatic fan control.
  Control 2: Charge input.

## Installation Options:

- Fan heater ratings can be set on full or half load.
- Automatic fan heater switch-off during off-peak tariff periods.

## Performance:




## Specification:

| Product Reference | Catalogue Number | Rating Storage | Direct Acting | Charge Acceptance (7Hrs) | Charge Acceptance (8Hrs) | Weight | Number of Storage Elements | Number of Core Bricks |
|---|---|---|---|---|---|---|---|---|
| **TSR12CW** | 79348 | 1.7 kW | 1.0/0.5 kW | 11.8 kWh | 12.6 kWh | 78kg | 2 | 8 |
| **TSR18CW** | 79358 | 2.5 kW | 1.5/0.75 kW | 17.6 kWh | 18.5 kWh | 114kg | 3 | 12 |
| **TSR24CW** | 79368 | 3.4 kW | 2.0/1.0 kW | 23.5 kWh | 25.0 kWh | 149kg | 4 | 16 |
| **TSR12ACW** | 75-772001 | 1.7 kW | 1.0/0.5 kW | 11.8 kWh | 12.6 kWh | 78kg | 2 | 8 |
| **TSR18ACW** | 75-772002 | 2.5 kW | 1.5/0.75 kW | 17.6 kWh | 18.5 kWh | 114kg | 3 | 12 |
| **TSR24ACW** | 75-772003 | 3.4 kW | 2.0/1.0 kW | 23.5 kWh | 25.0 kWh | 149kg | 4 | 16 |

• Insulation - Opacified silicaceous aerogel and mineral fibre mat • Storage Core - High density iron oxide compound • CW controls (input) - (Storage) Hydraulic charge control thermostat, manually adjustable for weather conditions • ACW controls (input) - (storage) Hydraulic head temperature compensated, room and storage core temperature sensitive • Controls (Fan Heater) manually adjustable room temperature sensing thermostat • Safety - Two level thermal safety overheat protection • Supply - 230/240V AC single phase.

# TSR Sensor Plus

## TSR6AW
## TSR12AW
## TSR18AW
## TSR24AW

BEAB Approved CE

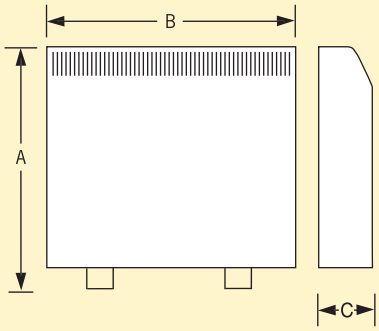
**The Multi-sense system in the TSR Sensor Plus automatically controls heat storage to maintain the desired room temperature. Working on any low-cost tariff, these heaters monitor the room temperature and energy stored within the heater core to avoid overcharging. This can save up to 15% of the energy used by ordinary storage heaters.**

## Key Features:

- Multi-sense two thermostatic sensor control system for heat storage and room temperature control.
- The only storage heater available that automatically monitors and controls heat output through a thermostatic sensor.
- Controls couldn't be simpler - one for input and one for output.
- Multi-sense system enables energy savings of up to 15%.
- Multi-sense operates exclusively at maximum efficiency on all economy tariff periods.
- Automatic control means little if any control adjustment - just set and forget.
- All Multi-sense sensors mounted within the heater.
- Lockable controls cover.
- Newera colour and aesthetics with softform styling.

## Dimensions:

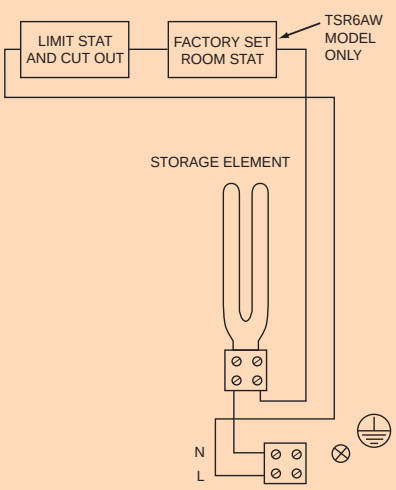
**SENSOR PLUS**

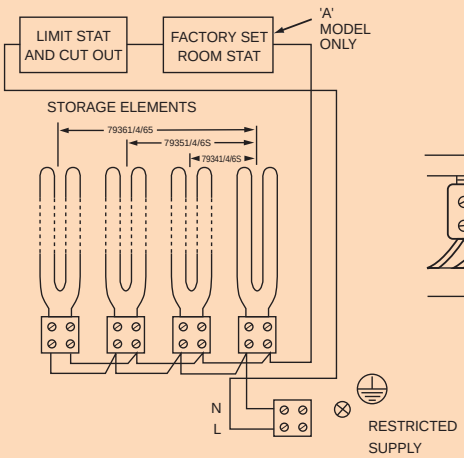


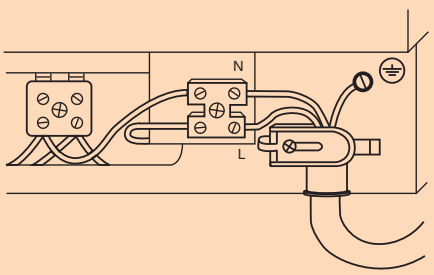

| | | |
|---|---|---|
| **A Height** | **All models** | 705mm |
| **B Width** | **TSR6A** | 335mm |
| | **TSR12A** | 560mm |
| | **TSR18A** | 788mm |
| | **TSR24A** | 1016mm |
| **C Depth** | **All models** | 170mm |

## Wiring:

**TSR6A, TSR12A, TSR18A, TSR24A**



## Heater Overview:

- Multi-sense storage heater providing automatic control of heat input and room temperature levels.

## Storage Heater Charge Input Control:

- Hydraulic charge control thermostat providing Auto-set charge control.

## Heat Output Control:

- Fully automatic heat monitor and output controls, requiring no user adjustment for even temperature control throughout the day.

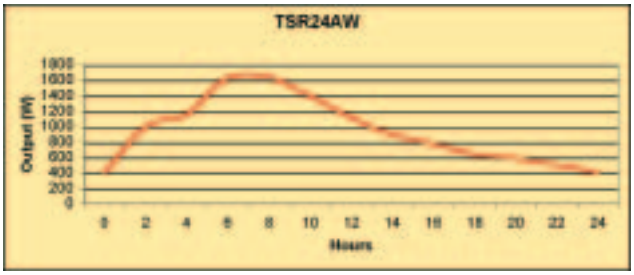
## Thermostat:

- Adjustable hydraulic thermostat control to maintain room temperature.

## User Controls:

- Mounted right.
  Control 1: Thermostatic output.
  Control 2: Thermostatic charge input.

## Performance:



## Specification:

| Product Reference | Catalogue Number | Rating Storage | Charge Acceptance (7Hrs) | Charge Acceptance (8Hrs) | Weight | Number of Elements | Number of Core Bricks |
|---|---|---|---|---|---|---|---|
| **TSR6AW** | 79331 | 0.9 kW | 6.3 kWh | 7.2 kWh | 41kg | 1 | 4 |
| **TSR12AW** | 79341 | 1.7 kW | 11.8 kWh | 12.6 kWh | 77kg | 2 | 8 |
| **TSR18AW** | 79351 | 2.5 kW | 17.6 kWh | 18.5 kWh | 110kg | 3 | 12 |
| **TSR24AW** | 79361 | 3.4 kW | 23.5 kWh | 25.0 kWh | 145kg | 4 | 16 |

• Insulation - Opacified silicaceous aerogel and mineral fibre mat • Storage Core - High density iron oxide compound • Storage Elements - Mineral insulated stainless steel sheathed • Controls* (output) - Patented adjustable room temperature sensing thermostat controlling output damper • Controls (input) - Hydraulic head temperature compensated, room and storage core temperature sensitive, Auto-Set charge control • Safety - Two level thermal safety overheat protection • Supply - 230/240V AC single phase

*79331 has no user controls

# TSR Slimline

## TSR6MW
## TSR12MW
## TSR18MW
## TSR24MW

BEAB Approved CE

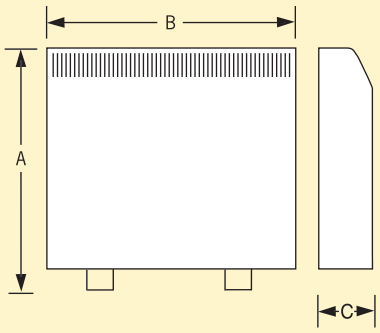
**Utilising a hydraulic heat storage sensor to give greater accuracy and control over heat input and room temperature levels, TSR Slimline heaters are economical to run. With manually operated input and output controls, they're easy to use too.**

## Key Features:

- High performance, high technology off-peak economy.
- Exceptionally quick and easy to install.
- Hydraulic heat storage sensor provides better control and economy.
- Attractive, easy-to-use controls.
- Lockable controls cover.
- Slim, unobtrusive design.
- Newera colour and aesthetics with softform styling.

## Dimensions:

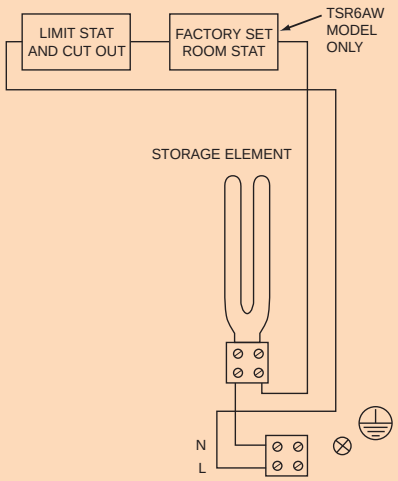
**SLIMLINE**

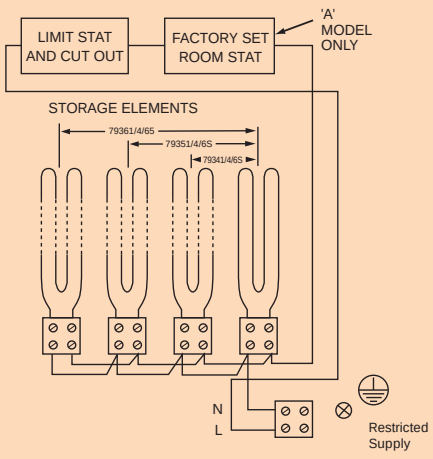


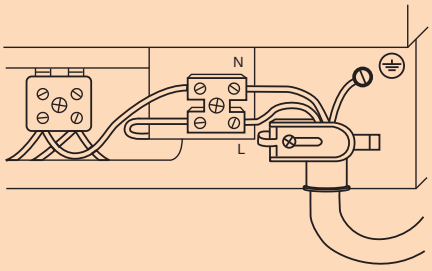

| | | |
|---|---|---|
| **A Height** | **All models** | 705mm |
| **B Width** | **TSR6MW** | 335mm |
| | **TSR12MW** | 560mm |
| | **TSR18MW** | 788mm |
| | **TSR24MW** | 1016mm |
| **C Depth** | **All models** | 170mm |

## Wiring:

**TSR6MW, TSR12MW, TSR18MW, TSR24MW**



## Heater Overview:

- Highly economical yet straightforward manually controlled storage heater.

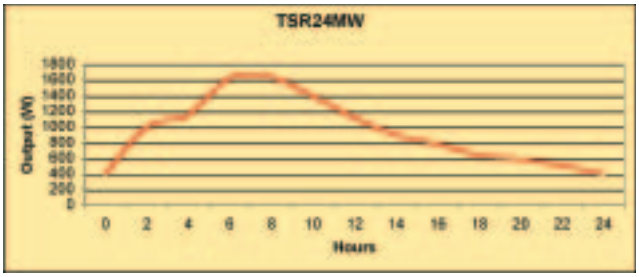
## Storage Heater Charge Input Control:

- Manually adjustable hydraulic charge control thermostat.

## Heat Output:

- Manual, thermostatically controlled.

## Performance:




## User Controls:

- Mounted right.
  Control 1: Discharge output.
  Control 2: Charge input.

## Specification:

| Product Reference | Catalogue Number | Rating Storage | Charge Acceptance (7Hrs) | Charge Acceptance (8Hrs) | Weight | Number of Elements | Number of Core Bricks |
|---|---|---|---|---|---|---|---|
| **TSR6MW** | 79334 | 0.9 kW | 6.3 kWh | 7.2 kWh | 41kg | 1 | 4 |
| **TSR12MW** | 79344 | 1.7 kW | 11.8 kWh | 12.6 kWh | 77kg | 2 | 8 |
| **TSR18MW** | 79354 | 2.5 kW | 17.6 kWh | 18.5 kWh | 110kg | 3 | 12 |
| **TSR24MW** | 79364 | 3.4 kW | 23.5 kWh | 25.0 kWh | 145kg | 4 | 16 |

• Insulation - Opacified silicaceous aerogel and mineral fibre mat • Storage Core - High density iron oxide compound • Storage Elements - Mineral insulated stainless steel sheathed
• Controls* (output) - Manually adjustable thermostat controlling output damper • Controls (input) - Hydraulic charge control thermostat, manually adjustable for weather conditions
• Safety - Two level thermal safety overheat protection • Supply - 230/240V AC single phase

*79334 has no user controls

# TSF Turbo Storage Fan Heater

## TSF24K
## TSF32K
## TSF42K

BEAB Approved CE

**Creda TSF Turbo Storage Fan Heaters provide controlled output space heating with maximum economy and flexibility.**

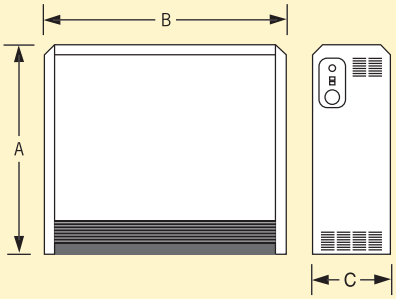
**As the heater retains 40% of total stored heat, the thermostatically controlled 2-speed centrifugal fan allows for rapid, uniform heating.**

## Key Features:

- TSF Turbo uses economy tariff electricity, operating particularly well on special daytime economy periods.
- Available in three output capacities - 3.6kW, 4.8kW and 5.7kW.
- More controllable, providing heat quickly when required.
- In-built direct element for out of season heating using day rate electricity.
- Fanned heat is faster and more even in distribution, particularly near ground level.
- Easy to use manual controls for room thermostat and Economy Charge, conveniently positioned on the heaters side.
- Smooth, rounded, modern appearance, compatible with today's home and office décor.

## Dimensions:

**TURBO STORAGE**



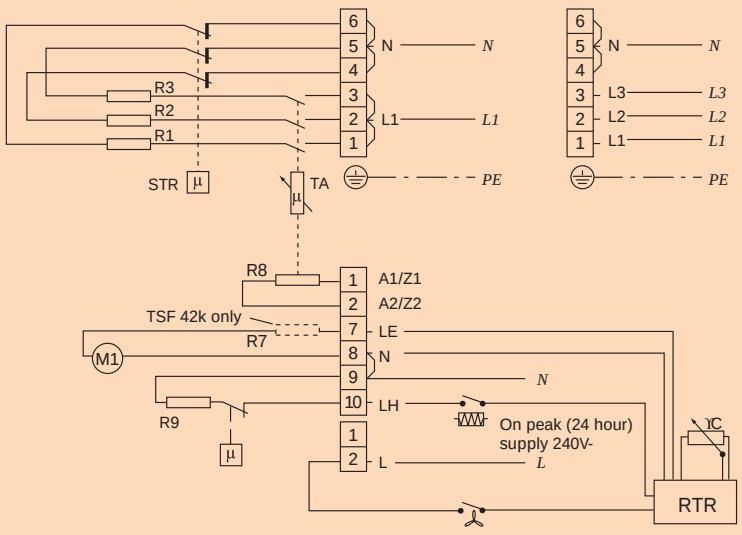

| | | |
|---|---|---|
| **A Height** | **All models** | 672mm |
| **B Width** | **TSF24K** | 776mm |
| | **TSF32K** | 926mm |
| | **TSF42K** | 1076mm |
| **C Depth** | **All models** | 250mm |

## Wiring:

**TSF24K, TSF32K, TSF42K**

Off peak (restricted) supply
Single phase connection
L1/N/Earth 240V-

Off peak (restricted) supply
Three phase connection
3/N/Earth 415V-




Key:

| | |
|---|---|
| L1<br>L2<br>L3 | Live |
| N | Neutral |
| E | Earth |
| R1<br>R2<br>R3 | Heating elements |
| TR | Charge control thermostat |
| STR | Thermal cut-out (automatic reset) |
| RTR | Room temperature control |
| A1/Z1<br>A2/Z2 | Automatic charge control (not available in UK) |
| LE | Thermostat controlled discharge supply |
| LH | Auxiliary heater supply |
| M1 | Fan |
| R7 | Fan resistor (TSF-42k only) |
| R8 | Charge control resistor |
| R9 | Auxiliary heater |

# TSF Turbo Storage Fan Heater

## Heater Overview:

- Fanned storage heater providing maximum economy and controllability on low rate and day rate tariffs.

## Storage Heater Charge Input Control:

- Adjustable hydraulic thermostat.

## Heat Output Control:

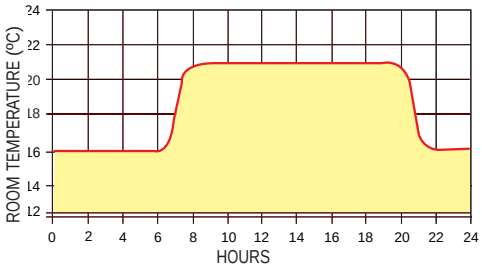
- Controlled by an integral thermostat.

## User Controls:

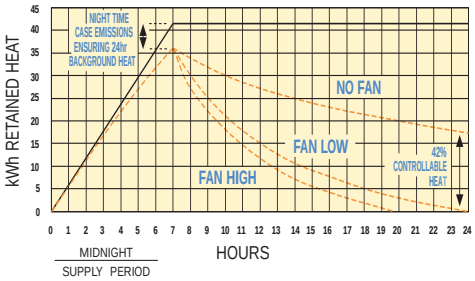
- Positioned on the right hand side of the heater.
  Control 1: Heat output.
  Control 2: Charge input.
- Neon switch for fan.
  Neon switch for direct acting element.

## Performance:

*Typical TSF Turbo daily heat output.*




*TSF 42 heat retention on E7 tariff.*


kWh RETAINED HEAT
NIGHT TIME CASE EMISSIONS ENSURING 24hr BACKGROUND HEAT
NO FAN
FAN LOW
FAN HIGH
42% CONTROLLABLE HEAT
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
MIDNIGHT
SUPPLY PERIOD
HOURS

## Specification:

| Product Reference | Catalogue Number | Off Peak Rating | Direct Acting Element Load | Charge Acceptance (7Hrs) | Charge Acceptance (8Hrs) | Weight | Number of Core Bricks |
|---|---|---|---|---|---|---|---|
| **TSF24K** | 70369KS | 3.6 kW | 1.1 kW | 25.2 kWh | 28.8 kWh | 137kg | 18 |
| **TSF32K** | 70379KS | 4.8 kW | 1.5 kW | 33.6 kWh | 38.4 kWh | 176kg | 24 |
| **TSF42K** | 70389KS | 5.7 kW | 2.0 kW | 39.9 kWh | 45.6 kWh | 215kg | 30 |

# TPR Panel Heaters

**TPR750W/TW**
**TPR1000W/TW**
**TPR1250W/TW**
**TPR1500W/TW**
**TPR2000W/TW**

BEAB Approved CE

**TPR panel heaters are designed to complement the TSR range of storage heaters to provide an efficient mixed home heating system. Exceptionally compact and IPX4 rated, they are ideal for smaller rooms such as bathrooms and bedrooms.**

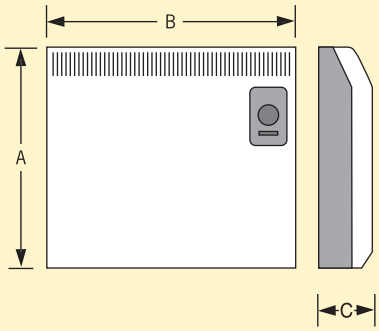
**Timer models feature quartz electronic programmers for greater accuracy and control.**

## Key Features:

- Compact, attractive design occupying minimum wall space.
- Ideal for smaller rooms such as conservatories, bathrooms and bedrooms.
- All models are fully IPX4 rated and so can be installed in bathrooms in zone 1 & 2.
- Wide range of heat outputs - 750W to 2000W.
- All models controlled by highly sensitive thermostat (accurate to +/-1/3°C) for better temperature control and economy.
- Wide temperature range setting, from 5°C (frost protection) to 35°C.
- Safety cut-out feature on all models.
- Newera colour and softform styling.

## Dimensions:

**TPR PANEL HEATERS**




| | | |
|---|---|---|
| **A Height** | **All models** | 420mm |
| **B Width** | TPR750W/750TW | 444mm |
| | TPR1000W/1000TW | 614mm |
| | TPR1200W/1200TW | 614mm |
| | TPR1500W/1500TW | 682mm |
| | TPR2000W/2000TW | 852mm |
| **C Depth** | All models | 93mm |

# TPR Panel Heaters

## Heater Overview:

- Compact panel heater available with or without quartz electronic programmer.

## Thermostat:

- Gas filled, accurate to within +/- 1/3°C.

## TPR Timer Models:

- Quartz electronic, 24 hour with manual override switch that will not alter programmer settings.

## Non Timer TPR Models:

- Thermostat control to +/- 1/3°C.

## Installation - All Models:

- Detachable, hinged wall mounting frame for ease of installation and cleaning.
- One metre of factory fitted cable enables mains connection from either side of heater.

## Specification:

**With Quartz Electronic programmer**

| Product Reference | Catalogue Number | Rating Storage |
|---|---|---|
| **TPR750TW** | 85301 | 750W |
| **TPR1000TW** | 85302 | 1000W |
| **TPR1250TW** | 85303 | 1250W |
| **TPR1500TW** | 85304 | 1500W |
| **TPR2000TW** | 85305 | 2000W |

• Elements - Finned metal sheathed mineral filled type • Thermostat - Gas filled type, accurate to ± 1/3°C • Programmer - 24hr high-temperature resistant Quartz Electronic action timer with 15 minute selection segments. Manual override of programme selection without timer re-setting • Supply - 230/240V AC single phase

**Without Quartz Electronic programmer**

| Product Reference | Catalogue Number | Rating Storage |
|---|---|---|
| **TPR750W** | 85311 | 750W |
| **TPR1000W** | 85312 | 1000W |
| **TPR1250W** | 85313 | 1250W |
| **TPR1500W** | 85314 | 1500W |
| **TPR2000W** | 85315 | 2000W |

• Elements - Finned metal sheathed mineral filled type • Thermostat - Gas filled type, accurate to ± 1/3°C • Supply - 230/240V AC single phase

# Accessories

## Storage Heater Shelves

## TSR Towel Rails

## TSR Guards

BEAB Approved CE

**Creda heater accessories are available to complement the Creda storage and panel heater ranges.**

### Storage Heater Shelves:

- Available in four widths to cover all sizes of TSR storage heaters and SFHA storage fan heaters.
- Finished in Newera white.

| Catalogue No. | Fits Heater |
|---|---|
| **79032S** | TSR6 |
| **79042S** | TSR12 |
| **79052S** | TSR18/SFHA18 |
| **79062S** | TSR24/SFHA24 |

### TSR Towel Rails:

- Available for TSR 6, TSR 12 and TSR18 auto and manual models.
- Quick and easy to fit.
- Available in Newera white.

| Catalogue No. | Fits Heater |
|---|---|
| **79130WS** | TSR6 A&M |
| **79140WS** | TSR12 A&M |
| **79150W** | TSR18 A&M |

### Heater Guards:

A range of guards, designed to protect against accidental contact with the hot surface of the heater, are available for Creda heaters from our suppliers:

Norfolk Industries,

95 Oak Street,

Norwich,

NR3 3BP.

Please contact them direct on:

Tel: 01603 667957 or

Fax: 01603 624265